BIAMP®

RoHS Compliant EU 2002/95/EC

# autoTWO
# Automatic Mixer

**The autoTWO Automatic Mixer is affordable, extremely versatile, and easy to use. Features include NOM attenuation, adaptive threshold sensing, speech-frequency filtering, manual priority override, selectable channel-off attenuation, and selectable last mic hold. The autoTWO is compatible with all other BIAMP products, providing the ultimate expandable system. The autoTWO is covered by BIAMP's five-year warranty.**

## FEATURES

- eight balanced mic/line inputs on plug-in barrier connectors
- trim, pad, level, & active/peak indicator per channel
- channel 1 manual 'override' via external contact-closure
- channel 8 'mix-minus' assign & 'ducking' via channels 1~7
- balanced main & aux outputs on plug-in barrier connectors
- selectable last mic on, hpf, automix, & 48V phantom power
- selectable automix channel-off attenuation (-12dB or -40dB)
- pre/post automix assignment to main, aux, & direct outputs
- external switches select options (no internal jumpers)
- logic outputs from channels for switching of external circuits
- Adaptive Threshold Sensing minimizes false gate triggering
- Speech-Frequency Filter minimizes false gating due to noise
- 6dB of hysteresis reduces gate 'flutter' when near threshold
- 'stacking' of two units to expand system input capability
- **RoHS** compliance and **AES** grounding practices
- **CE** marked and **UL** listed power source
- covered by Biamp Systems' five-year warranty

## ARCHITECTS & ENGINEERS SPECIFICATION

The automatic mixer shall provide eight balanced mic/line input channels. Each input channel shall include trim, pad, & level controls, as well as a combined active/peak indicator and an unbalanced direct out. DIP switches on each channel shall allow selection of gating, 48V phantom power, & direct out pre/post gate. Channels 1~7 shall be individually assignable to trigger signal present ducking of channel 8 by 12dB. Channel 8 assignment to an auxiliary output shall be defeatable, to provide a mix-minus capability. Each input channel shall provide a discrete transistor, differentially balanced mic/line preamp for low-noise & low distortion, with connections via plug-in barrier strip.

Balanced main & aux outputs, as well as a balanced stacking input, shall be provided on plug-in barrier strips. The main output shall include a selectable high-pass filter. The aux output shall be assignable to receive pre/post gate signal from the channels. The stacking input, along with a master/slave switch & an expansion jack, shall allow linking of two units to increase the number of mixer inputs. The expansion jack shall include a priority terminal for muting of all inputs, except channel 1, via an external contact-closure.

The main output shall provide NOM attenuation, with automixing functions to include Adaptive Threshold Sensing, Speech-Frequency Filtering, & 6dB of hysteresis, for increased stability of gating operations. Other automixing functions shall include selectable last mic hold & -12dB/-40dB channel-off attenuation. Eight logic outputs shall be provided on a 9-pin Sub-D connector, for control of external circuits based upon active status of the channels.

Frequency response shall be +0/-0.5dB (20Hz~20kHz @ +4dBu) THD+N shall be less than 0.05% (20Hz~20kHz @ +4dBu) Output Noise shall be less than -75dBu (20Hz~20kHz, main & channel @ nominal) Power consumption shall be less than 12 watts. Dimensions shall be 1.75 inches (1 rack space) high, 19 inches wide, and 11 inches deep. Weight shall be 10 lbs. Warranty coverage shall be 5 years. The unit shall be CE marked, include a UL / C-UL listed power source, and shall incorporate AES48-2005 Grounding & EMC practices. The mixer shall be compliant with EU Directive 2002/95/EC, the RoHS directive.

The automatic mixer shall be a BIAMP autoTWO.

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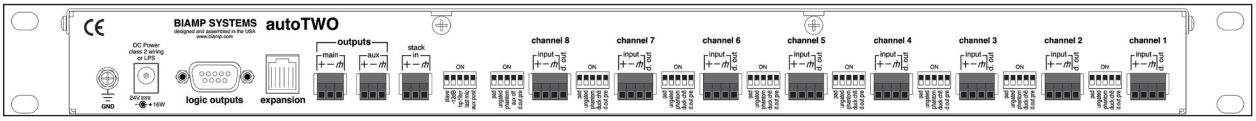
# autoTWO SPECIFICATIONS

| | |
|---|---|
| Frequency Response (20Hz~20kHz @ +4dBu): | +0/-0.5dB |
| THD+N (20Hz~20kHz @ +4dBu): | < 0.03% |
| Output Noise (20Hz~20kHz, main & 1 channel @ nominal): | < -75dBu |
| Maximum Gain: | |
| mic/line inputs to main & aux outputs: | 86dB |
| stack in to main output: | 10dB |
| Crosstalk (channel-to-channel @ 1kHz): | < -65dB |
| Output Impedance: | |
| main & aux outputs (balanced): | 200 ohms |
| Input Impedance: | |
| mic/line inputs (balanced): | 4.7k ohms |
| stack in (balanced): | 28k ohms |
| Maximum Output: | |
| main & aux outputs: | +24dBu |
| channel direct outs: | +18dBu |
| Maximum Input: | |
| mic/line inputs: | +18dBu |
| stack in: | +24dBu |

| | |
|---|---|
| High-Pass Filter: | 6dB/octave @ 170Hz |
| Automixing: | |
| gate attack time: | 4ms |
| release time (adjustable): | 150ms to 4 seconds |
| threshold (adjustable): | -32dBu to -8dBu |
| channel-off attentuation (selectable): | -12dBu or -40dB |
| NOM attentuation (doubling of active inputs): | -3dB |
| Feedback/Noise Improvement (8 channels): | 9dB |
| Power Consumption (115/230VAC 50/60Hz): | < 12 watts |
| Dimensions: | |
| height: | 1.75 inches (44mm) |
| width: | 19 inches (483mm) |
| depth: | 11 inches (279mm) |
| Weight: | <10 lbs. (4.55kg) |
| Compliance: | AES48-2005 Grounding & EMC practices |
| | EU Directive, 2002/95/EC, RoHS directive |
| | CE marked |
| | UL listed power source |

# autoTWO REAR PANEL DIAGRAM




# autoTWO BLOCK DIAGRAM